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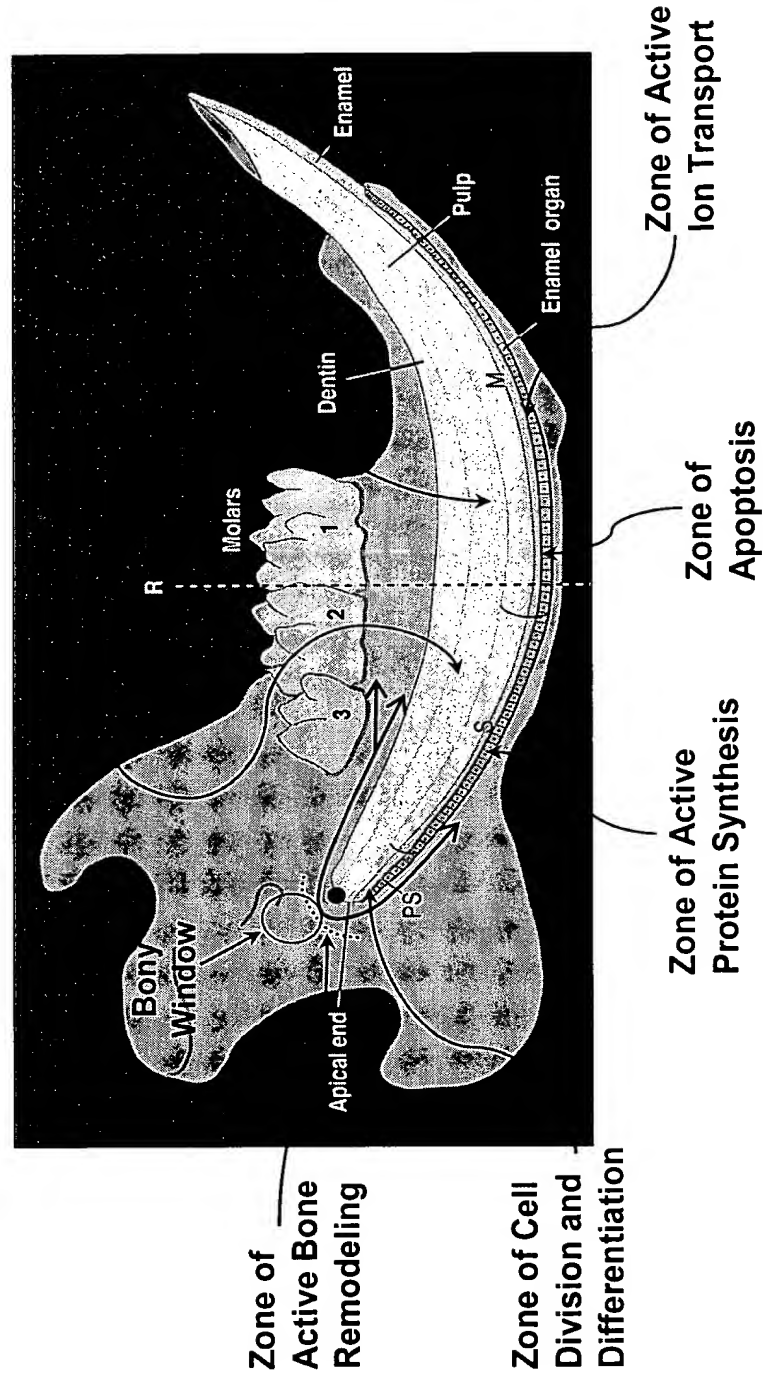
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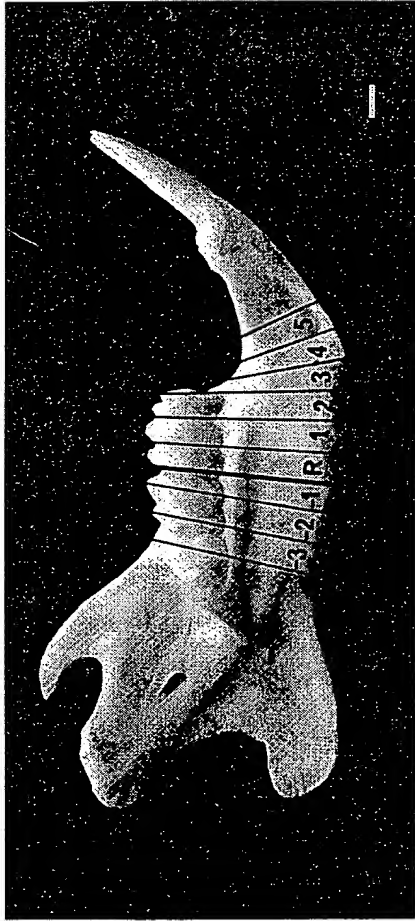
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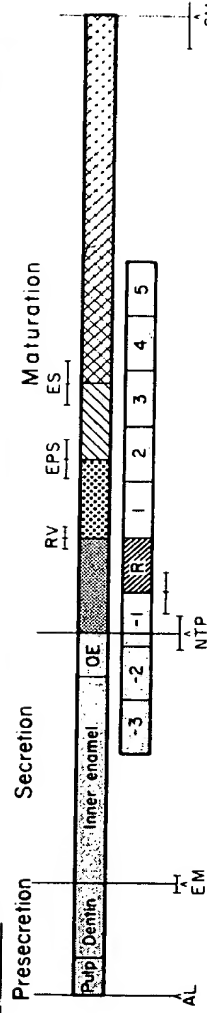
The invention

The invention is a model for the evaluation of cell and tissue activities. Such model can be used, among other things, for measuring the toxicity of a compound, the anti-inflammatory effect, and/or the anti-cancer effects, since the rodent incisor comprises zones representative of all stages of cell development.





Expected:

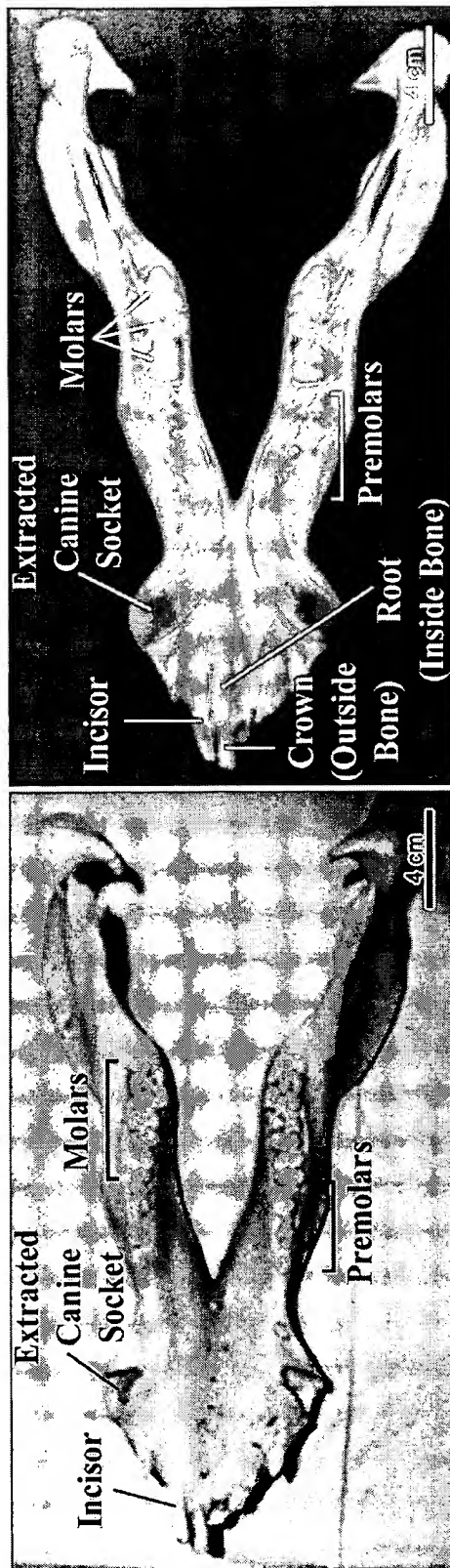


Histomorphometry

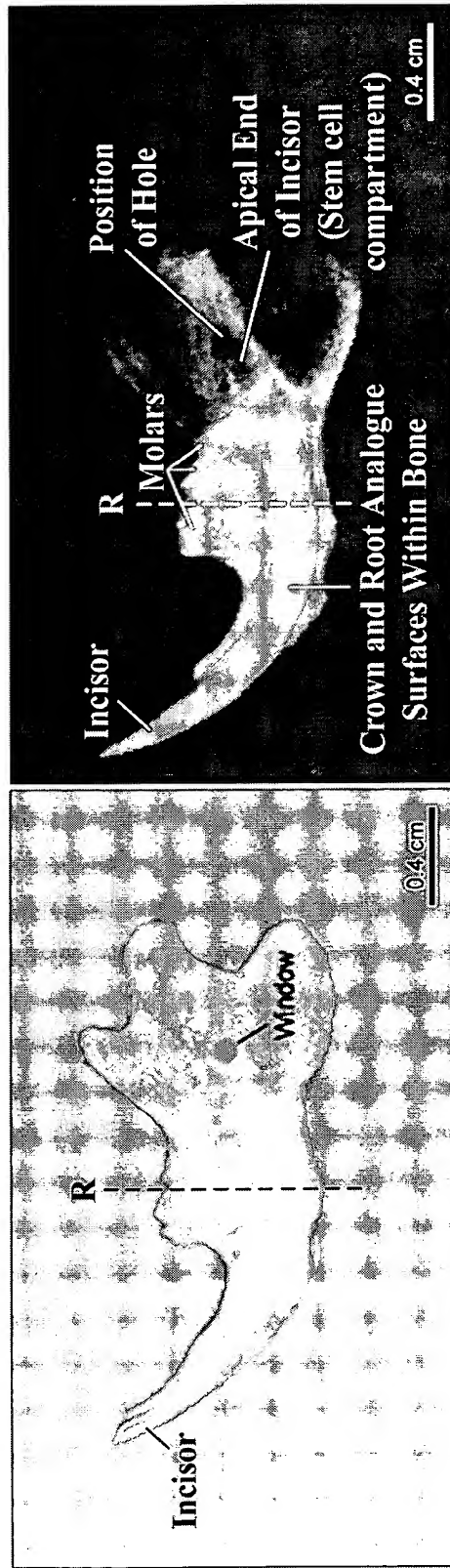
- Bone histology is the study of bone by light microscopy. It provides qualitative information, including the overall structure and distribution of bone components.
- Bone histomorphometry includes the measurement of morphologic components, such as osteoid thickness and wall thickness. Histomorphometry can also estimate kinetic variables through the use of fluorescent labels.

Source: Erksen et al., Bone Histomorphometry, Raven Press, 74p, 1994

The Pig Mandible consists of a single fused bone



The Rat Mandible consists of two distinct hemimandibles, one is shown below



The present invention vs Ouhayoun et al

- | | |
|---|--|
| • Rodent (different from swine) | • Swine |
| • Continuously eruptive model | • No continuous growth |
| • Catabolic/anabolic analysis (not affected by damage or repair) | • Destruction/repair evaluation |
| • All stages and parts of the tooth are accessible and mapping can be precisely performed over time | • Only the formed root is accessible and no mapping over time is available since it would require many animals at different development stages |
| • Multiple generation of cells can be followed (progeny) | • One generation of cells only |
| • 2 hemimandibule allow to have a control in the same animal | • 1 mandibule, control has to be another animal |